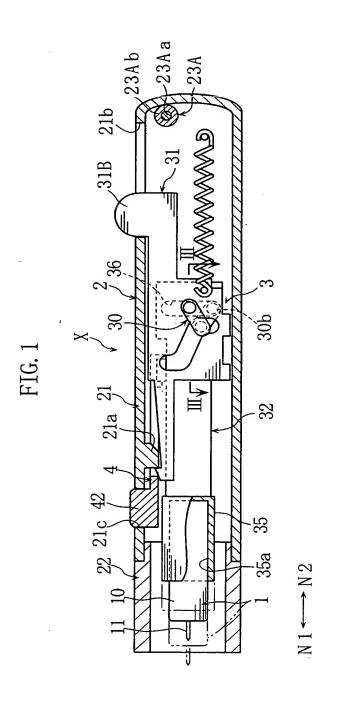
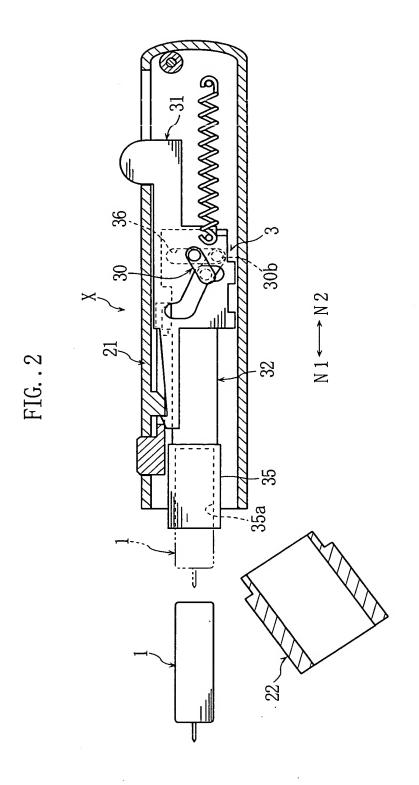
Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 1 of 15

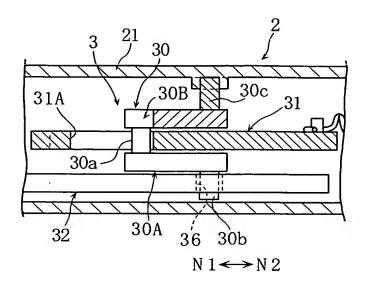


Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 2 of 15



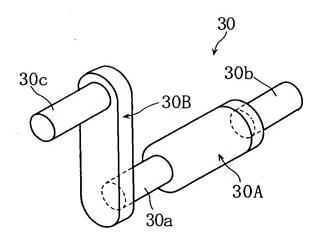
Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 3 of 15

FIG. 3

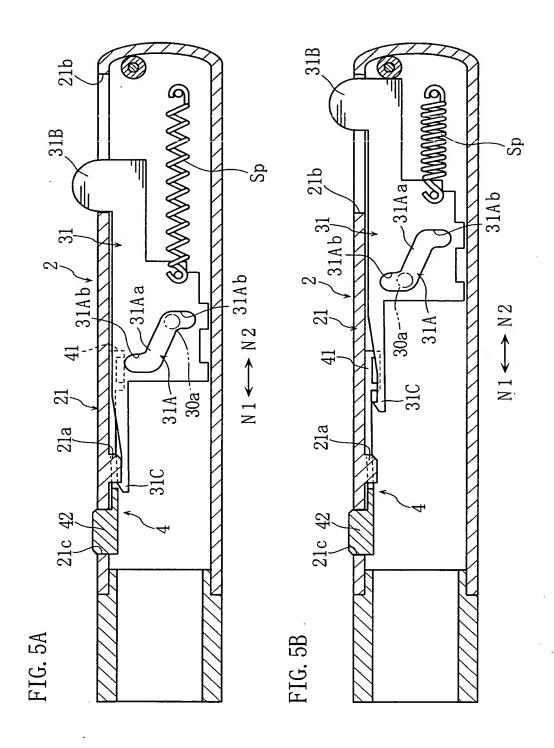


Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 4 of 15

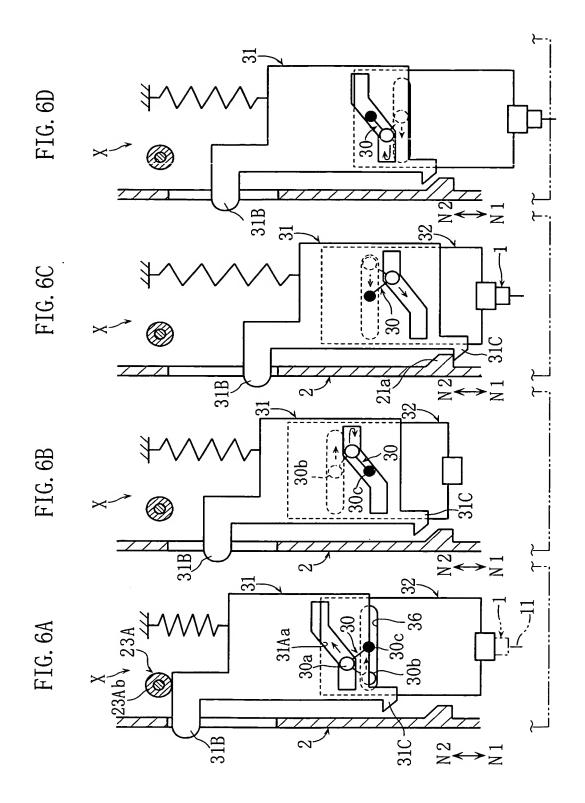
FIG. 4



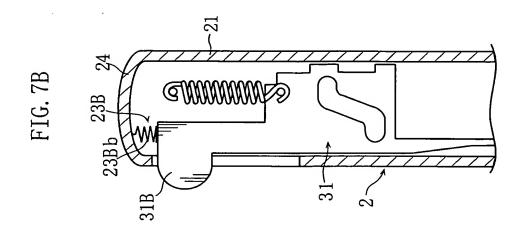
Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 5 of 15

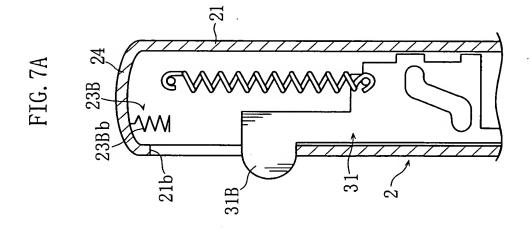


Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 6 of 15

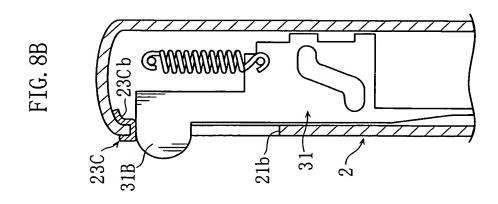


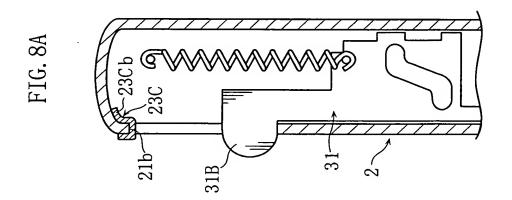
Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 7 of 15



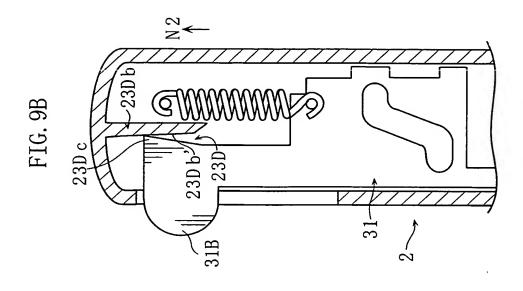


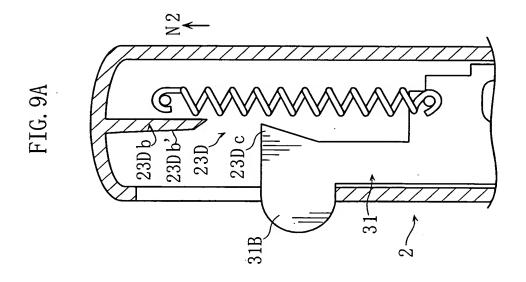
Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 8 of 15



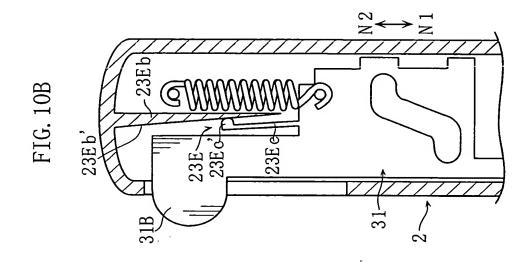


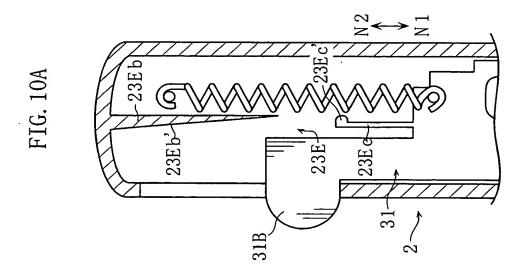
Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 9 of 15



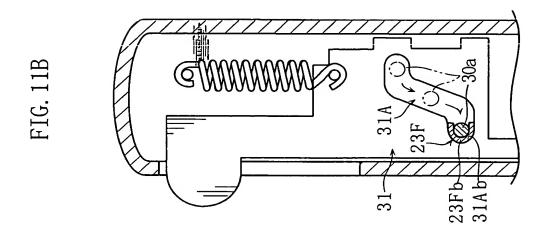


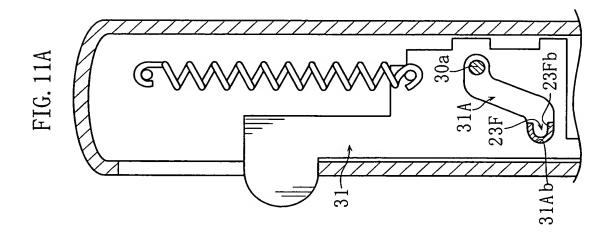
Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 10 of 15



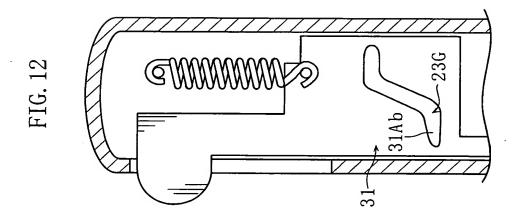


Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 11 of 15

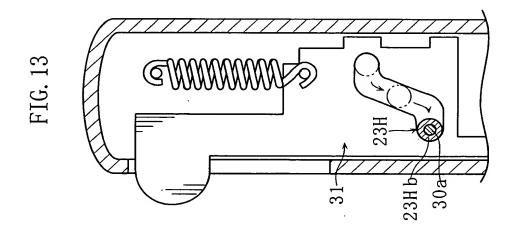




Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 12 of 15

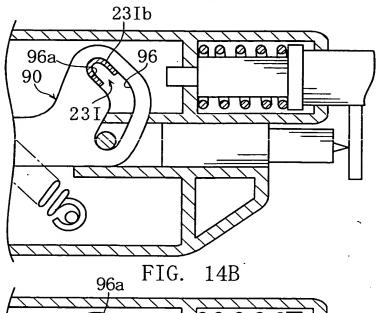


Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 13 of 15



Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 14 of 15

FIG. 14A



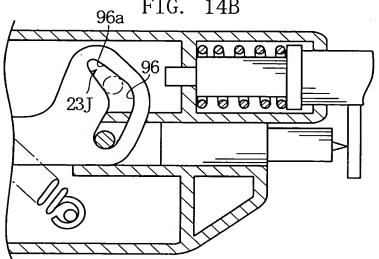
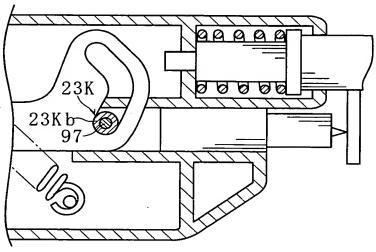
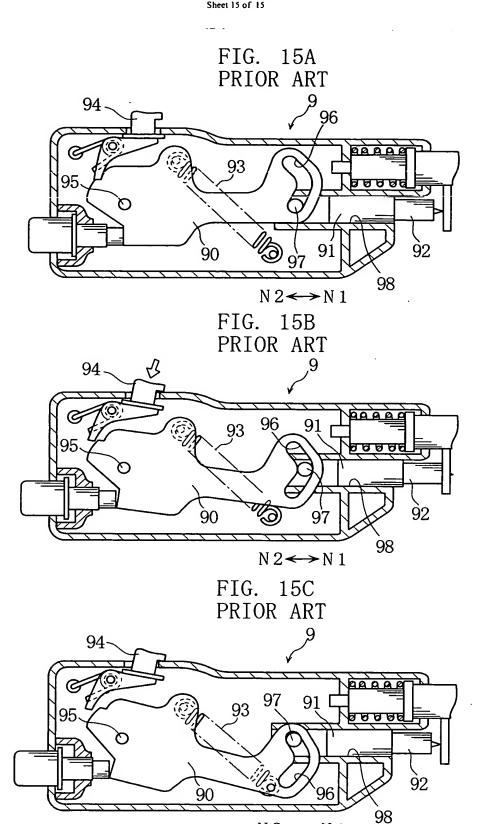


FIG. 14C



Inventor: FUKUZAWA ET AL.
Docket No.: 10921.367USWO
Title: NEEDLE INSERTION DEVICE
Attorney Name: Douglas P. Mueller
Phone No.: 612.455.3804
Sheet 15 of 15



 $N2 \longrightarrow N1$